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## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/866,248C

DATE: 07/16/2003

TIME: 08:05:33

Input Set : A:\57155A.txt

Output Set: N:\CRF4\07162003\I866248C.raw

5 <110> APPLICANT: Gerald, Christophe P.G.  
 7 Jones, Kenneth A.  
 9 Bonini, James A.  
 11 Borowsky, Beth  
 15 <120> TITLE OF INVENTION: DNA Encoding Mammalian Neuropeptide FF (NPFF) Receptors  
 and Uses Thereof  
 21 <130> FILE REFERENCE: 1795/57155-A  
 C--> 25 <140> CURRENT APPLICATION NUMBER: US/09/866,248C  
 C--> 27 <141> CURRENT FILING DATE: 2001-05-25  
 31 <150> PRIOR APPLICATION NUMBER: 09/161,113  
 33 <151> PRIOR FILING DATE: 1998-09-25  
 37 <160> NUMBER OF SEQ ID NOS: 42  
 41 <170> SOFTWARE: PatentIn Ver. 2.0 - beta  
 45 <210> SEQ ID NO: 1  
 47 <211> LENGTH: 1410  
 49 <212> TYPE: DNA  
 51 <213> ORGANISM: Rattus norvegicus  
 55 <400> SEQUENCE: 1  
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 59 ggagcagaca gtatggaggc ggagccctcc cagccctcca acggcagctg gcccctgggt 120  
 61 cagaacggga gtgatgttggaa gaccagcatg gcaaccagcc tcaccttctc ctctactac 180  
 63 caacactcct ctccgtggc agccatgttc atcgccgcct acgtgtctat cttccctcctc 240  
 65 tgcatggtggtt gcaacaccct ggtctgttcc atttgtctca agaacccggca catgcgcact 300  
 67 gtcaccaaca tgtttatccct caacctggcc gtcagcgacc tgctgggtggg catcttctgc 360  
 69 atgcccaccaa cccttgttggaa caaccttatac actgggtggc ttgttgcaca cgccacatgc 420  
 71 aagatgagcg gcttgtgtca gggcatgtcc gtgtctgtcat cggttttac actgggtggcc 480  
 73 atcgctgtgg aaagggttccg ctgcacatgtt cacccttcc gcgagaagct gacccttcgg 540  
 75 aaggcgctgt tcaccatcgcc ggtatctgg gctctggcgc tgctcatcat gtgtccctcg 600  
 77 gccgtcactc tgacagtcatc ccgagaggag catcaactca tgctggatgc tcgttaaccgc 660  
 79 tcctaccgc tctactcgat ctgggaggccc tggcccgaga agggcatgtcg caaggtctac 720  
 81 accgcgggtgc tcttcgcac catctacatgg gtgccgttcc cgctcatgtt agtgtatgtac 780  
 83 gtgcgcacatcgcc cgccaaatgtt atgcccaggcc cccgttccgt ccgcgcacac ggaggaggcg 840  
 85 gtggccgagg gtggccgcac ttgcgcgttcc agggccgcgt tggtgcacat gctggatcg 900  
 87 gtggcgctct tcttcacatgg tgcctggctt ccactctggg tgctgtgtt gctcatcgac 960  
 89 tatggggagtc tgagcgatgtt gcaactgcac ctgctgtccgt tctacgcctt ccccttggca 1020  
 91 cactggctggc ctttccca cagcagcgcc aacccatca tctacggcta cttaacgag 1080  
 93 aacttccgc cggcgttcca ggctgccttc cgtgcacatgc tctgtggcc tccctggcc 1140  
 95 gcccacaatgc aaggctactc ggagcggccc aaccgcctcc tgccgcaggcg ggtgggtgg 1200  
 97 gacgtgcaac ccagcgactc cggcctgcacatgc tcaatgttccgt gccccagcag cgggggtccca 1260  
 99 gggcctggcc ggctggccact ggcgaatggg cgtgtggccc atcaggatgg cccgggggaa 1320  
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 107 <210> SEQ ID NO: 2

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109 <211> LENGTH: 432  
111 <212> TYPE: PRT  
113 <213> ORGANISM: Rattus norvegicus  
117 <400> SEQUENCE: 2  
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125 Gln Asn Gly Ser Asp Val Glu Thr Ser Met Ala Thr Ser Leu Thr Phe  
127 20 25 30  
131 Ser Ser Tyr Tyr Gln His Ser Ser Pro Val Ala Ala Met Phe Ile Ala  
133 35 40 45  
137 Ala Tyr Val Leu Ile Phe Leu Leu Cys Met Val Gly Asn Thr Leu Val  
139 50 55 60  
143 Cys Phe Ile Val Leu Lys Asn Arg His Met Arg Thr Val Thr Asn Met  
145 65 70 75 80  
149 Phe Ile Leu Asn Leu Ala Val Ser Asp Leu Leu Val Gly Ile Phe Cys  
151 85 90 95  
155 Met Pro Thr Thr Leu Val Asp Asn Leu Ile Thr Gly Trp Pro Phe Asp  
157 100 105 110  
161 Asn Ala Thr Cys Lys Met Ser Gly Leu Val Gln Gly Met Ser Val Ser  
163 115 120 125  
167 Ala Ser Val Phe Thr Leu Val Ala Ile Ala Val Glu Arg Phe Arg Cys  
169 130 135 140  
173 Ile Val His Pro Phe Arg Glu Lys Leu Thr Leu Arg Lys Ala Leu Phe  
175 145 150 155 160  
179 Thr Ile Ala Val Ile Trp Ala Leu Ala Leu Ile Met Cys Pro Ser  
181 165 170 175  
185 Ala Val Thr Leu Thr Val Thr Arg Glu Glu His His Phe Met Leu Asp  
187 180 185 190  
191 Ala Arg Asn Arg Ser Tyr Pro Leu Tyr Ser Cys Trp Glu Ala Trp Pro  
193 195 200 205  
197 Glu Lys Gly Met Arg Lys Val Tyr Thr Ala Val Leu Phe Ala His Ile  
199 210 215 220  
203 Tyr Leu Val Pro Leu Ala Leu Ile Val Val Met Tyr Val Arg Ile Ala  
205 225 230 235 240  
209 Arg Lys Leu Cys Gln Ala Pro Gly Pro Ala Arg Asp Thr Glu Glu Ala  
211 245 250 255  
215 Val Ala Glu Gly Gly Arg Thr Ser Arg Arg Arg Ala Arg Val Val His  
217 260 265 270  
221 Met Leu Val Met Val Ala Leu Phe Phe Thr Leu Ser Trp Leu Pro Leu  
223 275 280 285  
227 Trp Val Leu Leu Leu Ile Asp Tyr Gly Glu Leu Ser Glu Leu Gln  
229 290 295 300  
233 Leu His Leu Leu Ser Val Tyr Ala Phe Pro Leu Ala His Trp Leu Ala  
235 305 310 315 320  
239 Phe Phe His Ser Ser Ala Asn Pro Ile Ile Tyr Gly Tyr Phe Asn Glu  
241 325 330 335  
245 Asn Phe Arg Arg Gly Phe Gln Ala Ala Phe Arg Ala Gln Leu Cys Trp  
247 340 345 350  
251 Pro Pro Trp Ala Ala His Lys Gln Ala Tyr Ser Glu Arg Pro Asn Arg

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253	355	360	365													
257	Leu	Leu	Arg	Arg	Arg	Val	Val	Asp	Val	Gln	Pro	Ser	Asp	Ser	Gly	
259	370	375	380													
263	Leu	Pro	Ser	Glu	Ser	Gly	Pro	Ser	Ser	Gly	Val	Pro	Gly	Pro	Gly	Arg
265	385	390	395	400												
269	Leu	Pro	Leu	Arg	Asn	Gly	Arg	Val	Ala	His	Gln	Asp	Gly	Pro	Gly	Glu
271	405	410	415													
275	Gly	Pro	Gly	Cys	Asn	His	Met	Pro	Leu	Thr	Ile	Pro	Ala	Trp	Asn	Ile
277	420	425	430													

289 <210> SEQ ID NO: 3

291 <211> LENGTH: 200

293 <212> TYPE: DNA

295 <213> ORGANISM: Homo sapiens

299 <400> SEQUENCE: 3

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303	gccaccccg	ctacaaacct	caccttctcc	tcctactatc	agcacacctc	ccctgtggcg	120
305	gccatgttca	ttgtggctta	tgcgctcatc	ttcctgctct	gcatggtggg	caacaccctg	180
307	gtctgtttca	tcgtgctcaa					200

311 <210> SEQ ID NO: 4

313 <211> LENGTH: 66

315 <212> TYPE: PRT

317 <213> ORGANISM: Homo sapiens

321 <400> SEQUENCE: 4

323	Glu	Pro	Ser	Gln	Pro	Pro	Asn	Ser	Ser	Trp	Pro	Leu	Ser	Gln	Asn	Gly
325	1	5	10	15												

329	Thr	Asn	Thr	Glu	Ala	Thr	Pro	Ala	Thr	Asn	Leu	Thr	Phe	Ser	Ser	Tyr
331	20	25	30													

335	Tyr	Gln	His	Thr	Ser	Pro	Val	Ala	Ala	Met	Phe	Ile	Val	Ala	Tyr	Ala
337	35	40	45													

341	Leu	Ile	Phe	Leu	Leu	Cys	Met	Val	Gly	Asn	Thr	Leu	Val	Cys	Phe	Ile
343	50	55	60													

347 Val Leu

349 65

355 <210> SEQ ID NO: 5

357 <211> LENGTH: 1302

359 <212> TYPE: DNA

361 <213> ORGANISM: Homo sapiens

365 <400> SEQUENCE: 5

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369	aaaaactgg	atcccatctg	gaatgtcaat	gacacaaagc	atcatctgt	ctcagatatt	120

371	aatattac	atgtgaact	ctatcttac	cagcctcaag	tggcagcaat	cttcattatt	180
373	tcctacttc	tgatcttctt	tttgtgcat	atggaaata	ctgtggttg	ctttattgt	240

375	atgaggaaca	aacatatgca	cacagtca	aatcttca	tcttaaac	ggccataagt	300
377	gatttactag	ttggcatatt	ctgcatgc	ataaacactgc	tggacaatat	tatagcagga	360

379	tggccattt	gaaacacgat	gtgcaagatc	agtggattgg	tccagggaaat	atctgtcgca	420
381	gcttcagtc	ttacgttagt	tgcaattgt	gtagataggt	tccagtgtgt	ggtctaccct	480

383	ttaaacc	agctcactat	caagacagcg	tttgtcatta	ttatgatcat	ctgggtccta	540
385	gccatcacca	ttatgtctcc	atctgcagta	atgttacatg	tgcaagaaga	aaaatattac	600

387	cgagtgagac	tcaactccca	gaataaaacc	agtccagtct	actggtgccg	ggaagactgg	660
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**Output Set: N:\CRF4\07162003\I866248C.raw**

389 ccaaatcagg aaatgaggaa gatctacacc actgtgtgt ttgccaaacat ctacctggct 720  
 391 cccctctccc tcattgtcat catgtatgga aggattggaa tttcaactt cagggctgca 780  
 393 gttccctaca caggcaggaa gaaccagag cagtggcacg tgggtgtccag gaagaagcag 840  
 395 aagatcatta agatgttcct gattgtgcc ctgtttta ttctctcatg gctgcccctg 900  
 397 tggactctaa tgatgtctc agactacgt gaccttctc caaatgaact gcagatcatc 960  
 399 aacatctaca tctaccctt tgcacactgg ctggcattcg gcaacagcag tgtcaatccc 1020  
 401 atcattttatg gtttcttcaa cgagaatttc cgccgtgggt tccaagaagc tttccagctc 1080  
 403 cagctctgcc aaaaaagagc aaagcctatg gaagcttatg ccctaaaagc taaaagccat 1140  
 405 gtgctcataa acacatctaa tcagcttgtc cagaaatcta catttcaaaa ccctcatggg 1200  
 407 gaaaccttgc tttataggaa aagtgtctgaa aaaccccaac aggaattagt gatggaagaa 1260  
 409 taaaaagaaa ctactaacag cagttagatt taaaaagagc ta 1302  
 413 <210> SEQ ID NO: 6  
 415 <211> LENGTH: 420  
 417 <212> TYPE: PRT  
 419 <213> ORGANISM: Homo sapiens  
 423 <400> SEQUENCE: 6  
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 427 1 5 10 15  
 431 Trp Asn Val Asn Asp Thr Lys His His Leu Tyr Ser Asp Ile Asn Ile  
 433 20 25 30  
 437 Thr Tyr Val Asn Tyr Tyr Leu His Gln Pro Gln Val Ala Ala Ile Phe  
 439 35 40 45  
 443 Ile Ile Ser Tyr Phe Leu Ile Phe Phe Leu Cys Met Met Gly Asn Thr  
 445 50 55 60  
 449 Val Val Cys Phe Ile Val Met Arg Asn Lys His Met His Thr Val Thr  
 451 65 70 75 80  
 455 Asn Leu Phe Ile Leu Asn Leu Ala Ile Ser Asp Leu Leu Val Gly Ile  
 457 85 90 95  
 461 Phe Cys Met Pro Ile Thr Leu Leu Asp Asn Ile Ile Ala Gly Trp Pro  
 463 100 105 110  
 467 Phe Gly Asn Thr Met Cys Lys Ile Ser Gly Leu Val Gln Gly Ile Ser  
 469 115 120 125  
 473 Val Ala Ala Ser Val Phe Thr Leu Val Ala Ile Ala Val Asp Arg Phe  
 475 130 135 140  
 479 Gln Cys Val Val Tyr Pro Phe Lys Pro Lys Leu Thr Ile Lys Thr Ala  
 481 145 150 155 160  
 485 Phe Val Ile Ile Met Ile Ile Trp Val Leu Ala Ile Thr Ile Met Ser  
 487 165 170 175  
 491 Pro Ser Ala Val Met Leu His Val Gln Glu Glu Lys Tyr Tyr Arg Val  
 493 180 185 190  
 497 Arg Leu Asn Ser Gln Asn Lys Thr Ser Pro Val Tyr Trp Cys Arg Glu  
 499 195 200 205  
 503 Asp Trp Pro Asn Gln Glu Met Arg Lys Ile Tyr Thr Thr Val Leu Phe  
 505 210 215 220  
 509 Ala Asn Ile Tyr Leu Ala Pro Leu Ser Leu Ile Val Ile Met Tyr Gly  
 511 225 230 235 240  
 515 Arg Ile Gly Ile Ser Leu Phe Arg Ala Ala Val Pro His Thr Gly Arg  
 517 245 250 255  
 521 Lys Asn Gln Glu Gln Trp His Val Val Ser Arg Lys Lys Gln Lys Ile

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523	260	265	270
527	Ile Lys Met Leu Leu Ile Val Ala Leu Leu Phe Ile Leu Ser Trp Leu		
529	275	280	285
533	Pro Leu Trp Thr Leu Met Met Leu Ser Asp Tyr Ala Asp Leu Ser Pro		
535	290	295	300
539	Asn Glu Leu Gln Ile Ile Asn Ile Tyr Ile Tyr Pro Phe Ala His Trp		
541	305	310	315
545	Leu Ala Phe Gly Asn Ser Ser Val Asn Pro Ile Ile Tyr Gly Phe Phe		
547	325	330	335
551	Asn Glu Asn Phe Arg Arg Gly Phe Gln Glu Ala Phe Gln Leu Gln Leu		
553	340	345	350
557	Cys Gln Lys Arg Ala Lys Pro Met Glu Ala Tyr Ala Leu Lys Ala Lys		
559	355	360	365
563	Ser His Val Leu Ile Asn Thr Ser Asn Gln Leu Val Gln Glu Ser Thr		
565	370	375	380
569	Phe Gln Asn Pro His Gly Glu Thr Leu Leu Tyr Arg Lys Ser Ala Glu		
571	385	390	395
575	Lys Pro Gln Gln Glu Leu Val Met Glu Glu Leu Lys Glu Thr Thr Asn		
577	405	410	415
581	Ser Ser Glu Ile		
583	420		
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591	<211> LENGTH: 1293		
593	<212> TYPE: DNA		
595	<213> ORGANISM: Homo sapiens		
599	<400> SEQUENCE: 7		
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603	aacactgagg ccaccccgcc tacaaacctc accttctcct cctactatca gcacacccctcc	120	
605	cctgtggccgg ccatgttcat tgtggcctat ggcgtcatct tcctgctctg catggggc	180	
607	aacaccctgg tctgtttcat cgtgctcaag aaccggcaca tgcatactgt caccacatg	240	
609	ttcatcctca acctggctgt cagtgacctg ctggggca tcttctgcat gcccaccacc	300	
611	cttgtggaca acctcatcac tgggtggccc ttgcacaatg ccacatgcaa gatgagccgc	360	
613	ttgggtgcagg gcatgtctgt gtccggttcc gttttcacac tgggtggccat tgctgtggaa	420	
615	aggttccgct gcategtgca ccctttccgc gagaagctga ccctgcccggaa ggcgctcg	480	
617	accatcgccg tcatctggc cctggcgctg ctcatcatgt gtcacccctcgcc cgta	540	
619	accgtcaccc gtgaggagca ccacttcatg gtggacgccc gcaaccgctc ctaccctctc	600	
621	tactcctgct gggaggcctg gcccggagaag ggcatgcgca gggcttacac cactgtgctc	660	
623	ttcttcgcaca tctacctggc gcccgtggcg ctcatctgtgg tcatgtacgc ccgc	720	
625	cgcaagctct gcccggcccc gggccggccccc cccggggggcg aggaggctgc ggacccgcga	780	
627	gcatcgccgc gcagagccgc cgtggtgac atgctgtca tgggtggcgct gttttcacg	840	
629	ctgtccctggc tgccgctctg ggcgtgtcg ctgctcatcg actacgggca gctcagccgc	900	
631	ccgcagctgc acctggtcac cgtctacggc ttcccctcg cgcaactggct ggccttctc	960	
633	aacagcagcg ccaacccat catctacggc tacttcaacg agaacttccg ccgcggcttc	1020	
635	caggccgcct tccgcggcccg cctctgcccgg cggccgtcg ggagccacaa ggaggccctac	1080	
637	tccgagccgc ccggccggct tctgcacagg cgggtttcg tgggtggcg gcccagccgc	1140	
639	tccgggctgc cctctgagtc gggccctagc agtggggccc ccaggcccgg ccgcctcccg	1200	
641	ctgcggaatg ggcgggtggc tcaccacggc ttgcccagg aaggccctgg ctgctcccac	1260	
643	ctgcccctca ccattccagc ctggatatac tga	1293	
647	<210> SEQ ID NO: 8		

RAW SEQUENCE LISTING ERROR SUMMARY  
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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

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Seq#:10; N Pos. 3,6,14,15,17,18

Invalid Line Length:

The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:1; Line(s) 1,3,5,7,9,11,13,15,17,19,21,23,25,27,29,31,33,35,37,39,41  
Seq#:1; Line(s) 43,45,47,49,51,53,55,57,59,61,63,65,67,69,71,73,75,77,79,81  
Seq#:1; Line(s) 83,85,87,89,91,93,95,97,99,101,103,105,107  
Seq#:2; Line(s) 109,111,113,115,117,119,121,123,125,127,129,131,133,135,137  
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Seq#:26; Line(s) 1213,1215,1217,1219,1221,1223,1225,1227,1229,1231,1233  
Seq#:27; Line(s) 1235,1237,1239,1241,1243,1245,1247,1249,1251,1253,1255  
Seq#:28; Line(s) 1257,1259,1261,1263,1265,1267,1269,1271,1273,1275,1277  
Seq#:29; Line(s) 1279,1281,1283,1285,1287,1289,1291,1293,1295,1297,1299